### SOUTH AMERICAN MONSOON TIME SCALE

(Basics of the South American Monsoon Time Scale)

Ву

Gangadhara Rao Irlapati
H.No.5-30-4/1,Saibaba Nagar, Jeedimetla,
Hyderabad, Telanagana State, India-500055.
Email:- scientistgangadhar@gmail.com

### ABSTRACT:

The South American Monsoon is a part of monsoon system of the America it plays an important role in distribution and duration of the rainy season manually over the South Western Amazonia, and the central west and southeast Brazil region, affecting the economy through impacts on the agriculture and hydrology sectors.

Over several areas of the monsoon region there is a quick increase of precipitation during the months of spring (SON) and a reduction on March and April. The months of austral summer (December, January, February ) is the rainy season in the areas with maximum observed precipitation.

The monsoon onset and duration affect several economic and social activities, as agriculture planning and management of hydrological resources.

### **KEY WORDS:**

South American Monsoon, Indian monsoon Time Scale, Chronological sequence, Main path of the Indian Monsoon Astrogeophysical/Astrometeorological Phenomena.

### **INTRODUCTION:**

The South American Monsoon Time Scale is a Chronological sequence of events arranged in between time and weather with the help of a scale for studying the past, present and future movements of the South American Monsoon and its relationship with rainfall and other weather problems and natural calamities.

### PREPARATION OF THE SCALE:

Prepare the South American Monsoon Time Scale having 365 horizontal days from March 21<sup>st</sup> to next year March 20<sup>th</sup> (or 1<sup>st</sup> April to next year March 31<sup>st</sup> or according to convenience) for a required period comprising of a large time and weather have been taken and framed into a Square graphic scale, or 2, or 4 parts later the parts may be combined with pasting.

### DATA REQUIRED FOR THE SCALE:

The main Weather events of the monsoon season if any pertaining to the monsoon season may be taken to formulating the South American Monsoon time Scale.

### PERFORMANCE OF THE SCALE:

Prepare the South American Monsoon Time Scale having 365 horizontal days from March 21<sup>st</sup> to next year March 20<sup>th</sup> (or 1<sup>st</sup> April to Next Year March 31<sup>st</sup> or according to convince) for a required period comprising of a Large time and weather have been taken and framed into a square graphic Scale. The Scale may be prepared either in a single from, or 2 ,or 4 parts later the parts should be combined with pasting. The main weather events if any pertaining to the monsoon season of the region have been entering on the scale as per the date and month of the each and every year. If we have been managing the South American Monsoon Time Scale in this manner continuously we can study the past, present and future movements of the South American Monsoon and its relationship with weather problems and Natural calamities of the monsoon.

### **SAMPLE MODEL SCALE:**

For example, I have prepared the monsoon time scale for India by preparing the scale having 365 horizontal days from 1<sup>st</sup> April to next year March 31<sup>st</sup> of 128 years from 1888 to 2016 of the required period comprising of large

time and weather have been taken and framed into a square graphic scale. The monsoon pulses in the form of low pressure systems over the Indian region have been entering on the scale in stages by 1 for low, 2 for depression, 3 for storm, 4 for severe storm and 5 for severe storm with core of hurricane winds pertaining to the date and month of the each and every year. If we have been managing the scale in this manner continuously, we can study the past' present's and future's of the India Monsoon and its relationship with rainfall and other weather problems & natural calamities in India.

### **ANALYSIS:**

The India Monsoon Time Scale reveals many secrets of the Indian monsoon and its relationship with rainfall & other weather problems and natural calamities. For example, some bands, clusters and paths of low pressure systems along with the main paths of the Indian Monsoon (South-west monsoon and north-east monsoon) clearly seen in the map of the Indian monsoon it have been some cut-edged paths passing through its systematic zigzag cycles in ascending and descending orders which causes heavy rains & floods in some years and droughts & famines in another years according to their travel. . The tracking date of main path & other various paths such as south-west monsoon and north-east monsoon etc., of the Indian Monsoon denotes the onset of the monsoon, monsoon pulses or low pressure systems. And also we can find out many more secrets of the Indian monsoon such as droughts, famines, cyclones, heavy rains, floods, real images of the Indian monsoon, and onset & withdrawals of south west monsoon and north-east monsoon etc. by keen study of the Indian Monsoon Time Scale.

### **MEASURING OF THE MONSOON:**

For example, during 1871-1990's, the main path of the Indian Monsoon was rising over June, July, August and creating heavy rains and floods in most years. During 1900-1920's, it was raising over August, September and resulting good rainfall in more years. During 1965-2004's it was falling over September and causing low rainfall and droughts in many years. At present it is rising upwards over June, July, August, September and will be resulting heavy rains & floods in coming years during 2004-2060. The tracking date of main path & other various paths such as south-west monsoon and north-east monsoon etc., of the Indian Monsoon denotes the onset of the monsoon, monsoon pulses or low pressure systems. And also we can find out many more secrets of the Indian monsoon such as droughts, famines, cyclones, heavy rains, floods, real images of the Indian monsoon, and onset & withdrawals of south west monsoon and north-east monsoon etc. by keen study of the Indian Monsoon Time Scale.

### **PRINCIPLE:**

This is an Astrogeophysical/Astrometeorological phenomenon of effects of astronomical bodies and forces on the earth's geophysical atmosphere. The cause is unknown however the year to year change of movement of axis of the earth inclined at 23½ degrees from vertical to its path around the sun does play a significant role in formation of clusters, bands & paths of the Indian Monsoon and stimulates the Indian weather. The inter-tropical convergence zone at the equator follows the movement of the sun and shifts north of the equator merges with the heat low pressure zone created by the rising heat of the sub-continent due to direct and converging rays of the summer sun on the India Sub-Continent and develops into the monsoon trough and maintain monsoon circulation.

### **PHYSICAL APPEARANCE:**

It is came to known in my researches that the South American Monsoon has a special physical appearance just as the Indian Monsoon.

### **MEASURES OF THE EUROPEAN MONSOON:**

It is came to known in my researches that the South American Monsoon having some peculiar measures just as identified in the Indian Monsoon.

### **CONCLUSIONS:**

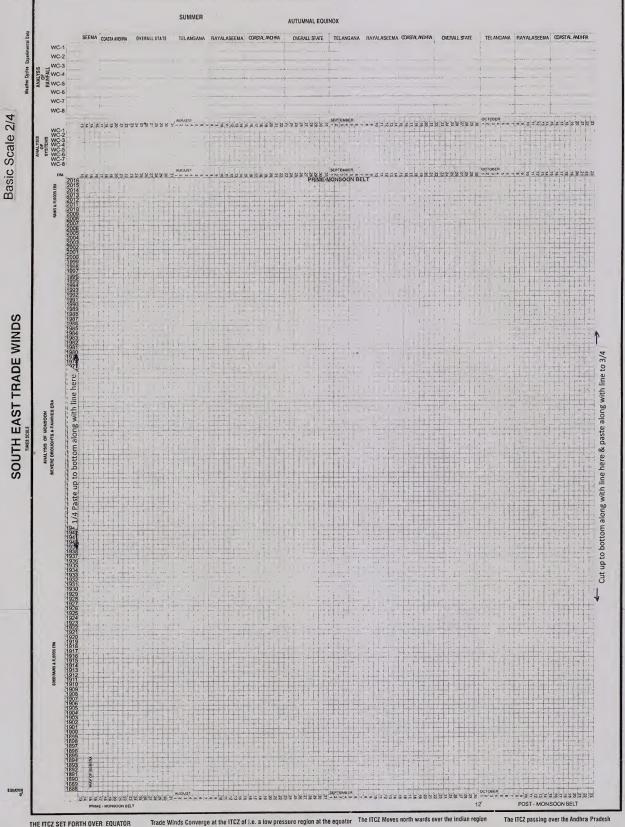
The world Scientist hereby requested to continue the further researches on the South American Monsoon Time Scale and find out the mysteries of the South American Monsoon. we can make many more modifications thus bringing many more developments in the South American Monsoon Time Scale.

### **REFERENCES:**

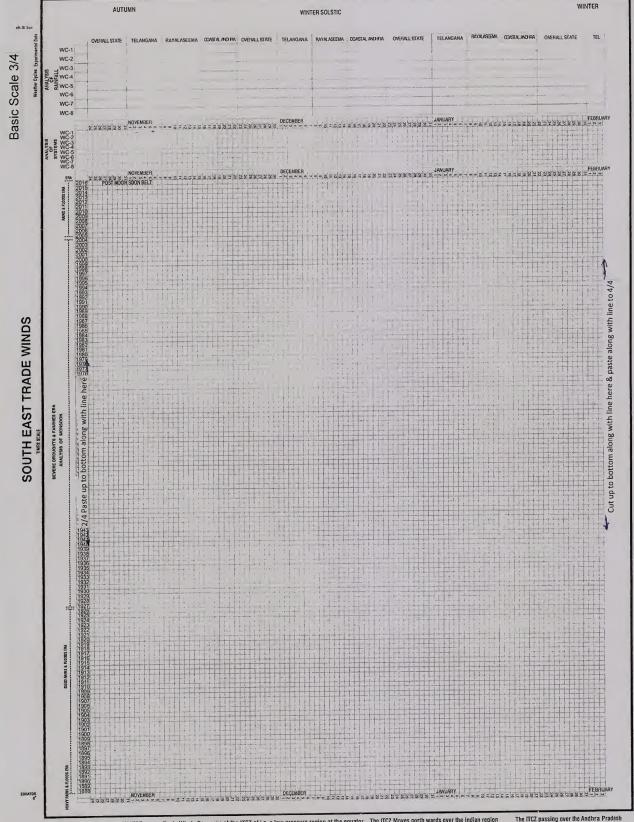
- 1. Mooley DA. Shukla J(1987); Characteristics of the west ward-moving summer monsoon low pressure systems over the Indian region and their relationship with the monsoon rainfall. Centre for ocean-land atmospheric interactions, university of Maryland, college park, MD.
- 2. All India monthly and seasonal rainfall series,18711993,B.Parthasarathy,A.AMunot, D.R. Kothawale, Theoretical and applied climatology,1994,Springer.
- 3. Das P.K. and B.L. Bose, 1958, Numerical study of movement of monsoon depression, Ind. journal of meteor. Geophysics,
- 4. Analysis of variability and trends of extreme rainfall events over India using 104 years of gridded daily rainfall data, M. Rajeevan, J.Bhate, A.K. Jaswal, Geophysical Research letters, 2008, online library.
- 5. jadhav, S.K.and A.A.Munot,2004; statistical study of the low pressure systems during summer monsoon season over the Indian region, mausam, 55,15-30.
- 6. Clustering of low pressure system during the Indian summer monsoon by intra seasonal oscillations, bn.goswami, rs. ajaya mohan, prince Xavier ,and d. sengupta, centre for atmospheric and oceanic studies, Indian institute of science, bangolour, India.
- 7. Composite structure of monsoon low pressure system and its relation to Indian rainfall, v. Krishna murthy and rs. Ajaya mohan, 2010, j.climate, 23,4285-4305
- 8. Indian monsoon university of st Andrews www.andrews.ac.uk/dibz/asia/monsoon/html.
- 9. Indian monsoon / meteorology/Britannica/.com www.britanica.com/science / Indian monsoon.
- 10. The global monsoon system: research and fore cast ;caos.iisc.in/faculty/bng/iwm-iii-bng-overview
- 11. Climate prediction centre-global monsoon; www.cpc ncep.noaa.gov, climate. weather.
- 12. The global monsoon system, www.wcrp-climate.org/documents/ monsoon -factsheet.
- 13. all India monthly and seasonal rainfall series, 1871-1993,b.parthasarathy, a.a mount,Dr. kothawale, theoretical and applied climatology,1994, Springer.
- 14. Parthasarathy .b, mount. aa, kothawale.dr, monthly and seasonal rainfall series for all India homogeneous regions and meteorological sub-divisions, 1871-1994, research report, iitm Pune.
- 15. Longest instrumental rainfall series of the Indian regions(1813-2006), Indian institute of tropical meteorology, Pune.
- 16. All Indian data series-(imd) Pune.
- 17. Monthly rainfall data series-ministry of earth sciences, moes.gov.in/
- 18. 114 years rainfall in India-interactive, India environmentportal.org.in/rainfall in India.
- 19. Education national geography.org/encyclopedia/monsoon.
- 20. Phoenix about.com/od/weather/a/monsoon trivia/htm.
- 21. In.wikipedia.org/wiki/monsoon.
- 22. www.wcpr-climate.org/documents/monsoon facts sheet.
- 23. The Global Monsoon system: Research and forecast (Report of the India National Committee of third International workshop on Monsoon (IWM-III)) 2-6 Nov-2004, Hangzhou, China Report No.70.

# INDIAN WEATHER TIMES SCALE

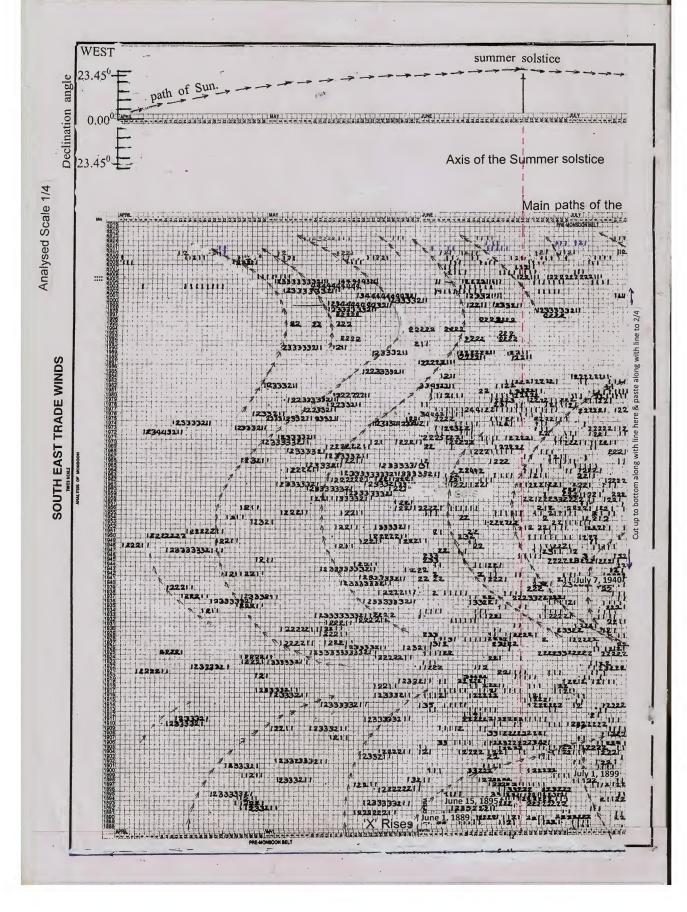
# INDIAN WEATHER



# TIMES SCALE



ANALYSIS OF MOON SOON (1888-2016) ANALYSIS OF WEATHER (APRIL 2908- 2009 MARCH) SPRING RAIN FAL WC-1 WC-2 filled Scaled 4/4 WC-6 WC-7 WC-8 SYSTEMS SYSTEMS ERA - WISE EVENTS MONTHLY WISE EVENTS Englisher Free Fee 3 3 4 Paste up to bottom along with line here 上的 Englisher English SOUTH EAST TRADE WINDS NOV TH OVER EQUATOR



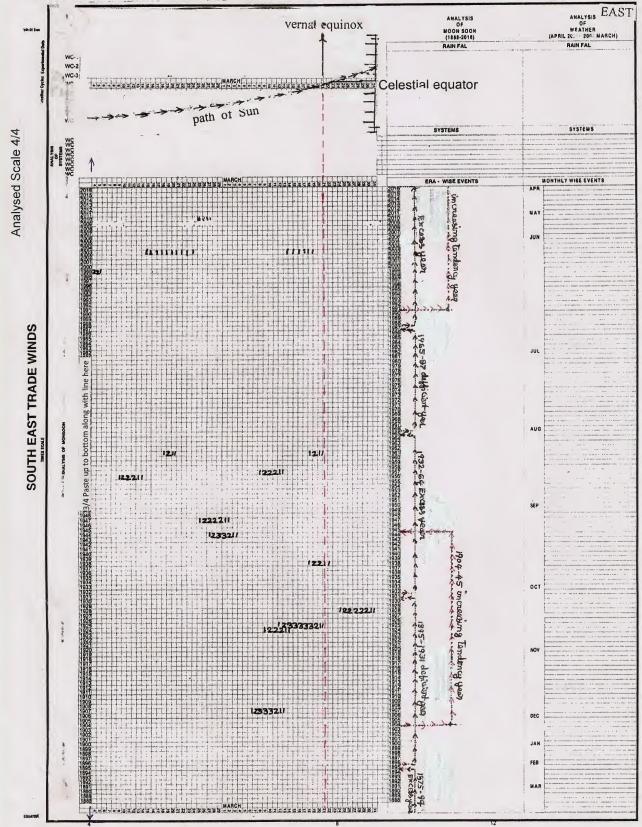
INDIAN MONSOON

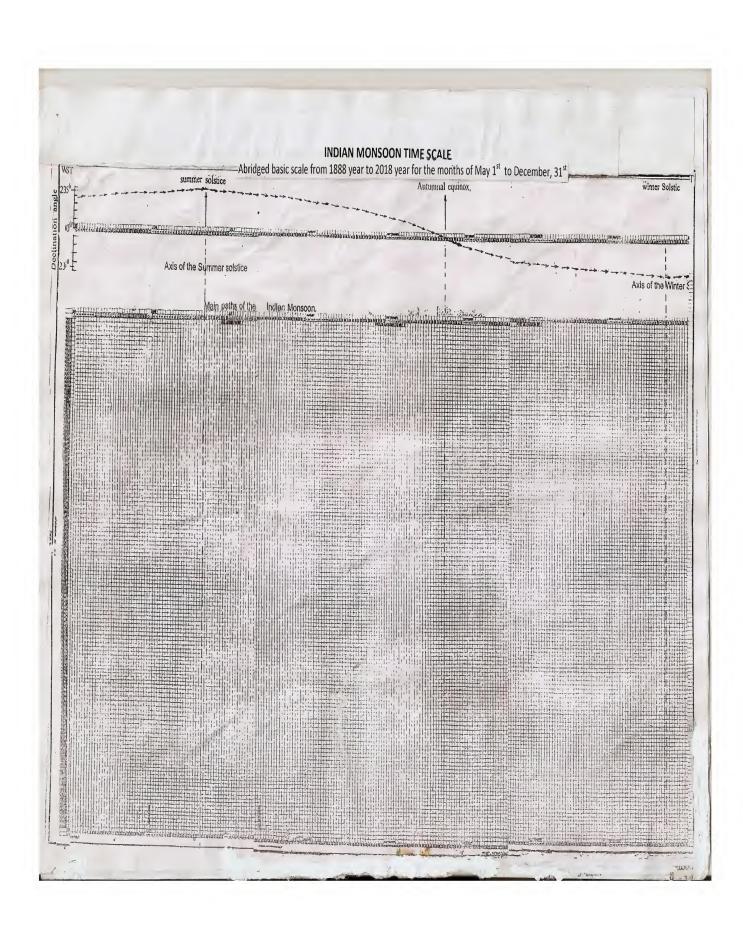
Autumnal equinox, NECESTAL SOLUTION OF THE PROPERTY OF THE PROPE Analysed Scale 2/4 Indian Monsoon.

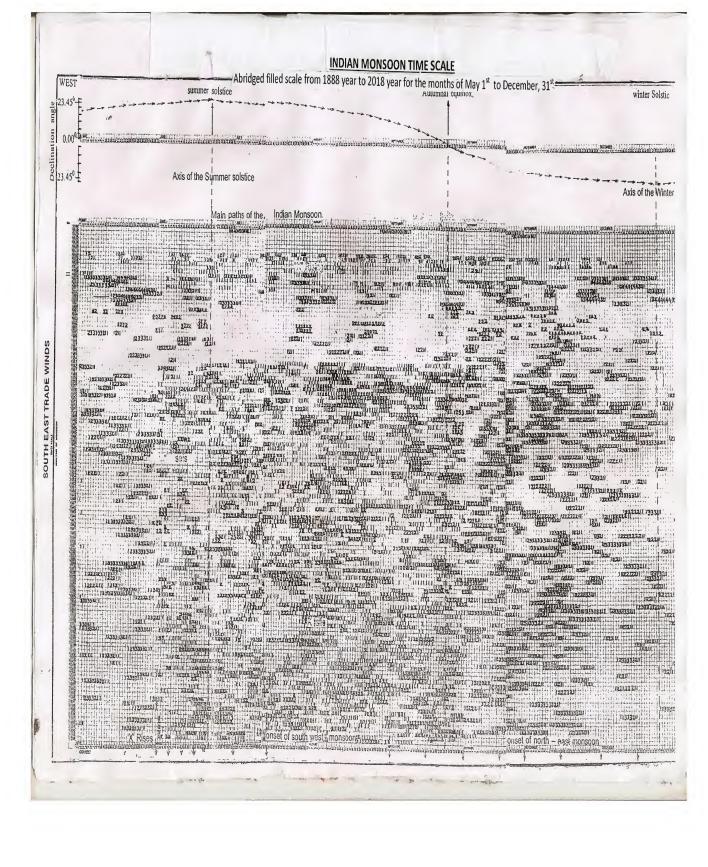
| The control of th ANALYSES OF SYSTEMS Indian Monsoon. SOUTH EAST TRADE WINDS

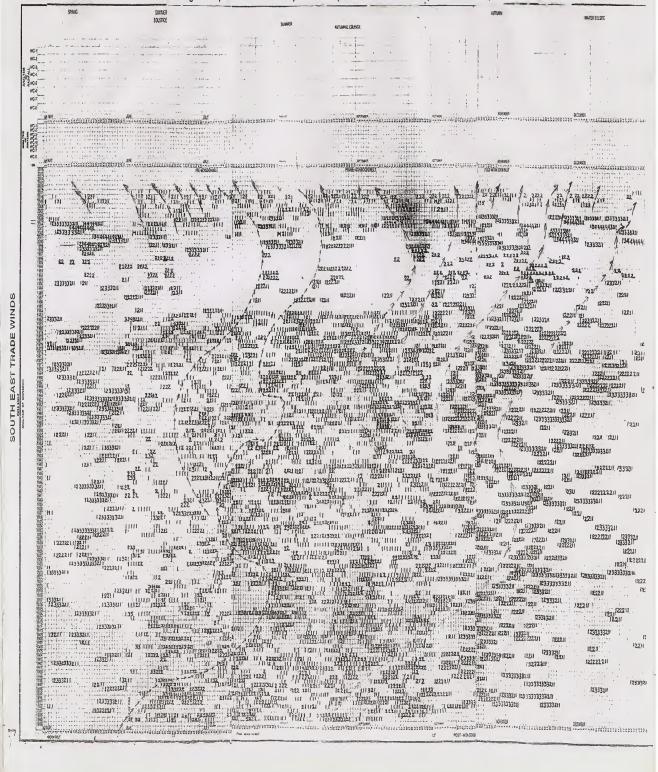
# TIME SCALE

winter Solstic WOMENER OF THE PROPERTY OF THE Analysed Scale 3/4 Axis of the Winter Solstice. AMALYSIS OF SYSTEMS **.UTH EAST TRADE WINDS** 





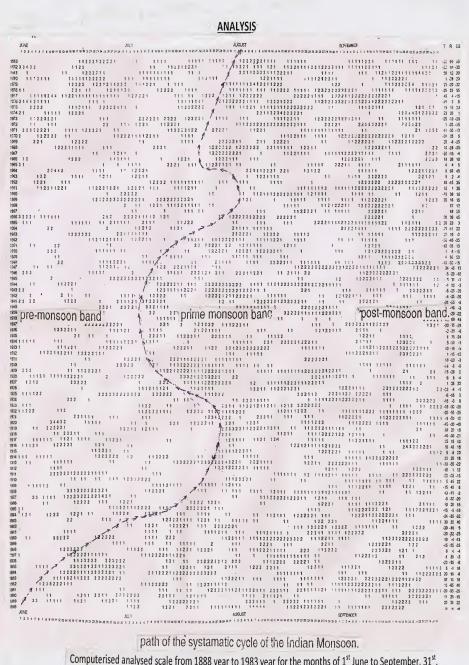




## MAP OF THE INDIAN MONSOON

ANALYSIS OF Years (1888-1993)		ANALYSIS OF Months (Jun Sep)
121 + 3 0 2 0 19 11 2 0 4 19 E H	ALY SOTEMER	
1983	1222122221   1 1111 1111111111 1222222111 111111 11111	1111 111 1110
Years (1888-953)  ADE	ALL	Months (JUNSEP)
1901 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1222 12222 11 122222 11 122222 11 122222 111115 1222 111115 12222 111115 12222 111115 12222 111115 122222 111115 122222 111115 122222 111115 1222222 11111 122222222	11 1222 1902 22221 1901 222222222222 1900
1856 1222222	2 111 22 111 1221 12221 111 221 111 221 12221 12221 111 222 117222 223323	1 2 7 1 1295
1871 1222 1866 1111 3312 1895 1111 3312 1894 122221 1893 1111221 1897 123522211 1891 11 1891 13 1893 1 11 1891 11 1891 13 1891 11 1891		11 212 997 (211 927 (2217 111 1267 (2227 111 1 1267 (11 1222 1225 (122212121 7 159) (11222 1 17) (11222 1 17) (11222 1 17) (11222 1 17) (11222 1 17) (11222 1 17) (11222 1 17) (11222 1 17) (11222 1 17) (11222 1 17)
AINE	11221233271 1 111111 27	1111
1334211564423998256982	TREATMENT OF THE CONTRACTION OF THE CONTRACT O	**********

Computerised basic scale from 1888 year to 1983 year for the months of  $1^{st}$  June to September,  $31^{st}$ .



path of the systamatic cycle of the Indian Monsoon.

Computerised analysed scale from 1888 year to 1983 year for the months of 1st June to September, 31st.